

Fig. 1

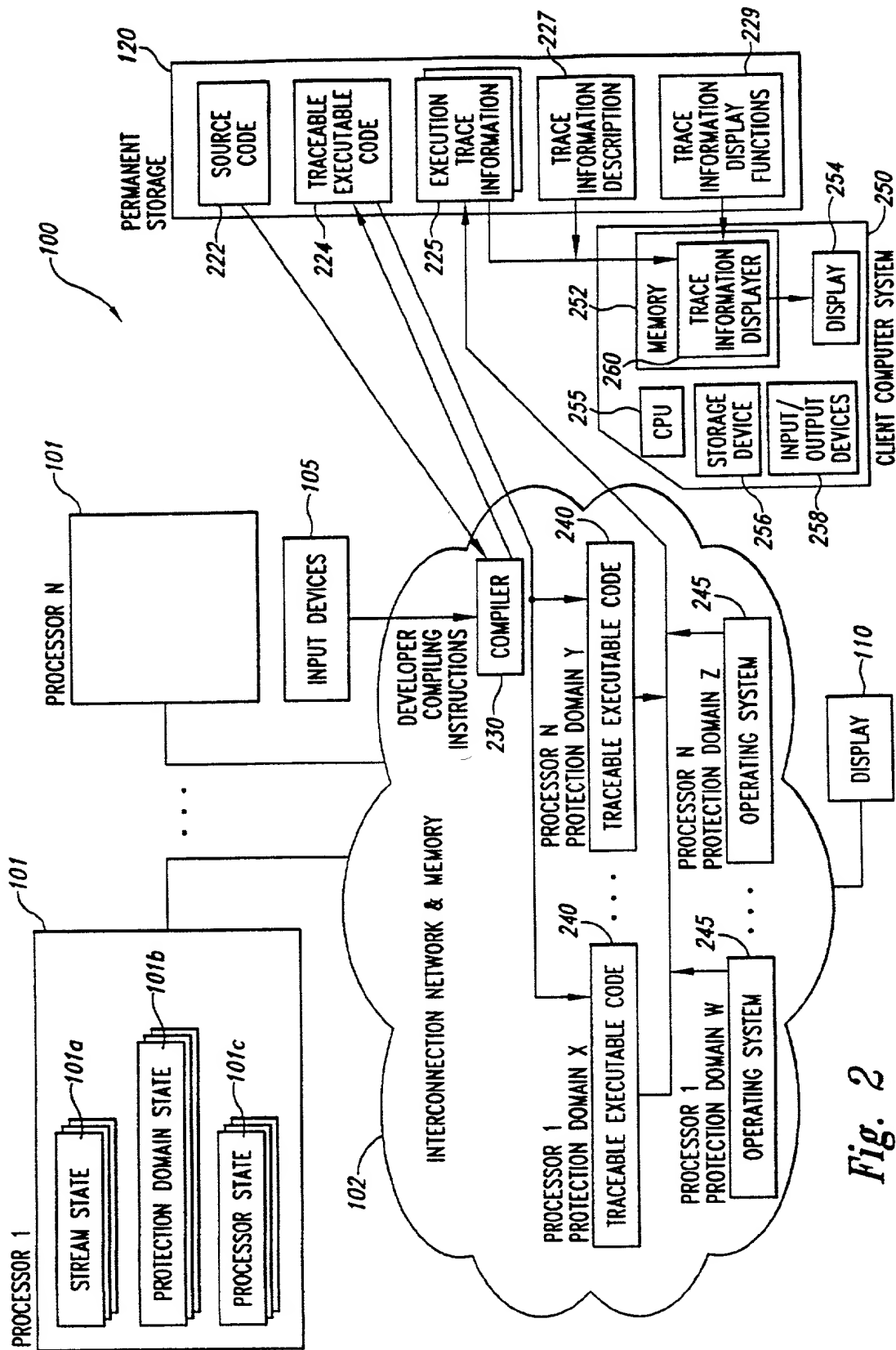


Fig. 2

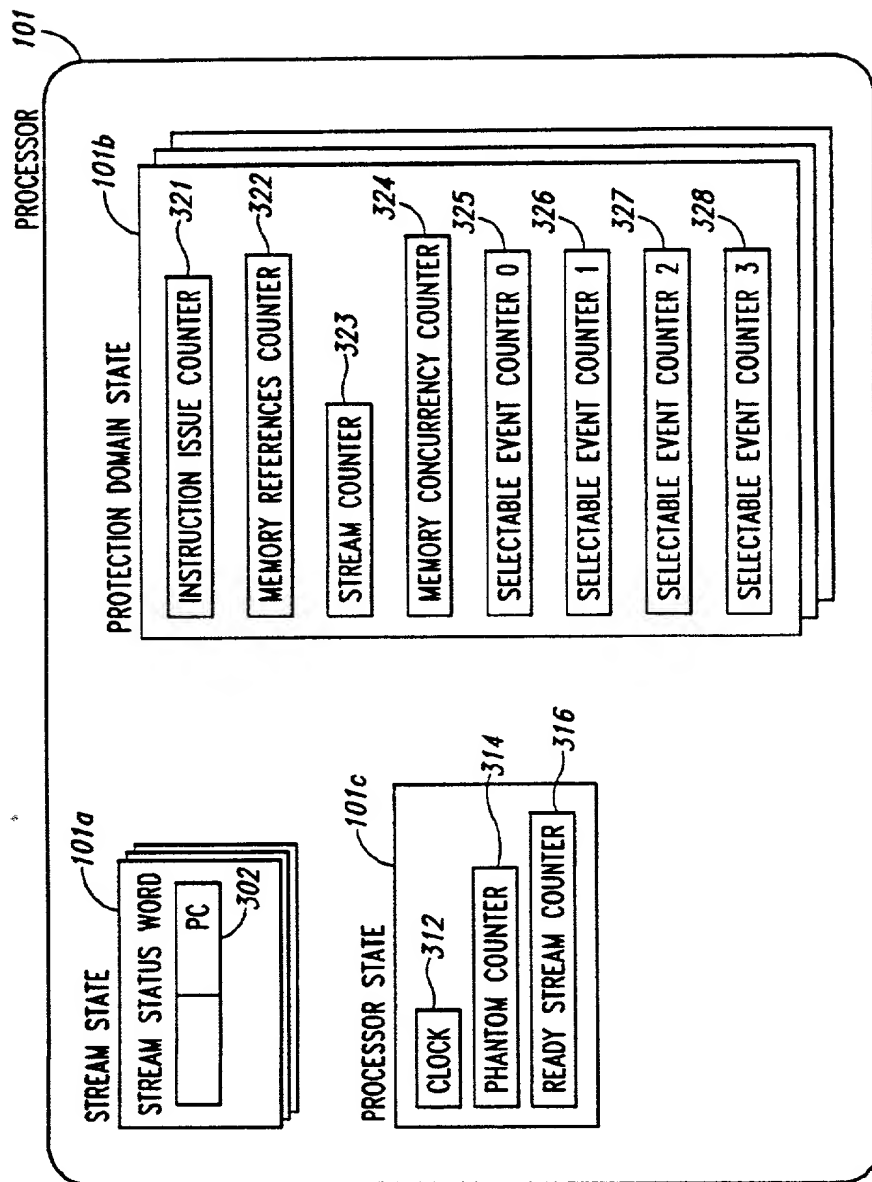


Fig. 3

Trace Information Description File

```
Trace Information Type Constants {      EVENT = 80000001
                                       DESCRIPTOR_OBJ = 80000002
                                       SWAP_OUT = 80000003      }

EventType Constants {      FUNCTION_ENTRY = 0
                           FUNCTION_EXIT = 1
                           USER_SPECIFIED = 2      }

event ProfileInfo {id = DESCRIPTOR_OBJ;
  structure {
    int      address;
    int      pc;
    EventType kind : 8;
    string    function_name;      } }

event Profile { id = EVENT;
  structure {
    int64 info      select ProfileInfo address ;
    int64 team_id   :16;
    int64 thread_id :48;
    int64 current_time    COUNTS clock ;
    int64 issues_counter  COUNTS issues ;
    int64 mem_ops_counter COUNTS memrefs ;
    int64 events0         COUNTS event0s ;
    int64 phantoms        COUNTS phantoms ;      }
  display_format =
    "Kind: %[info.kind]14s\n"
    "PC: 0x%[info.pc]x\n"
    "Team & Thread: %[team_id]d.%[thread_id]d\n"
    "Time#: %[current_time]d\n"
    "Phantoms#: %[phantoms]d\n";
  print_format =
    "Profile %[info.name]s %[info.kind]14s %[team_id]d.%[thread_id]d"
    "%[current_time]d:"
    "%[issues_counter]d %[mem_ops_counter]d %[events0]d %[phantoms]d\n" }

event SwapOut {
  id = SWAP_OUT;
  structure {
    int64 team ;
    int64 clock      COUNTS clock ;
    int64 memrefs    COUNTS memrefs ;
    int64 issues      COUNTS issues ;
    int64 phantoms    COUNTS phantoms ;
    int64 ready       COUNTS ready ;
    int64 event0s     COUNTS event0s ;
    int64 event1s     COUNTS event1s ;
    int64 event2s     COUNTS event2s ;
    int64 event3s     COUNTS event3s ;      } }
```

Fig. 4A

Execution Trace Information File

80000002
A7
83
0
"FunctionX"
80000002
A8
9B
1
"FunctionX"
80000001
A7
C
3C7
0A32
0092
0027
0038
0028
80000001
A7
9
726
0076
0023
001D
0024
001C
80000003
9
0082
002B
0022
001C
0007
0024
0304
000E
00B3

Fig. 4B

Trace Information Display Functions File

```
define issues          field "issues_counter"  
define phantoms        field "phantoms"  
  
define issues_rate     rate (issues)  
define available_rate  rate(issues+phantoms, 100000)  
  
display available_rate  
display if(available_rate > 0.0, issues_rate/available_rate)
```

Fig. 4C

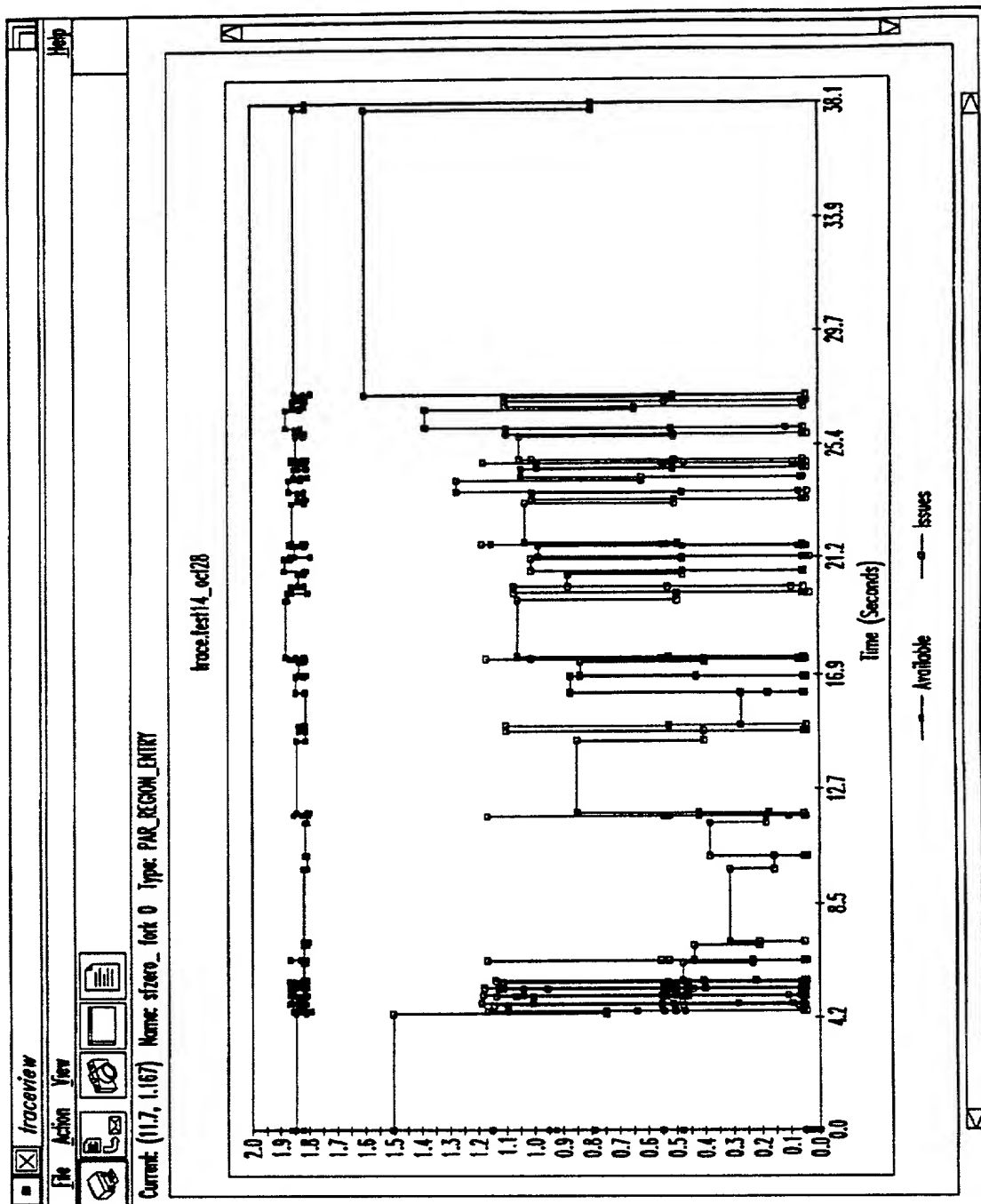


Fig. 5A

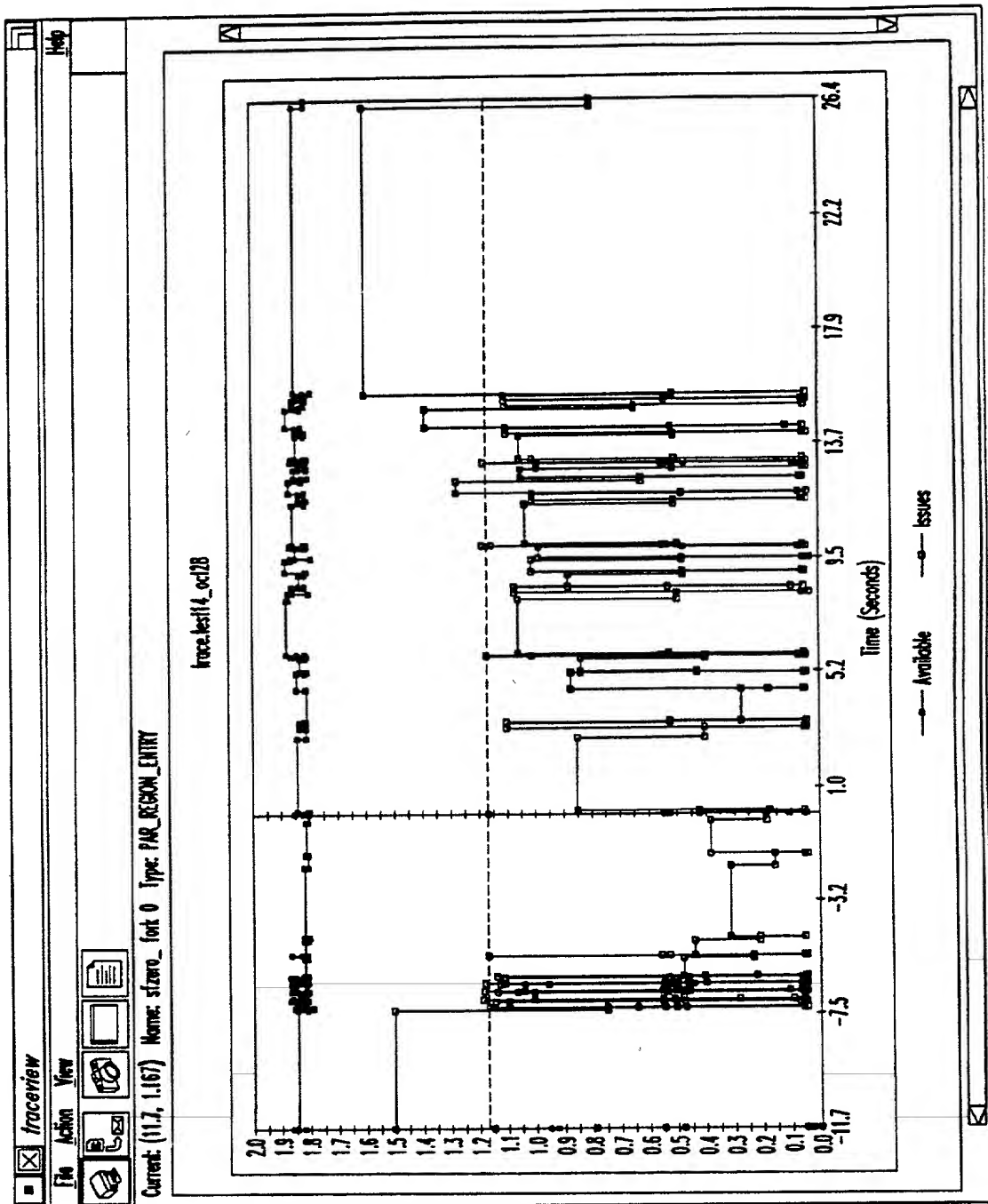
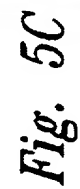


Fig. 5B



☒ Point Detail

Display Filter

Event Table

Name	Kind	PC	Team	Chore	Time	Issues	Phonemes	MemOps	FLOPS	Streams	Parent
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.192	2,918,520.107	2,449,668.060	2,848,520.371	1,146,276.546	1,56,914,711		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	2,984,796.075	1,462,064.507	2,955,106.871	1,55,948,528	181,395,041		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	2,984,806.078	1,462,064.668	2,955,125.507	1,55,948,773	181,395,051		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	2,984,833.632	1,462,066.607	2,955,180.466	1,55,949,642	181,395,071		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	2,984,868.088	1,462,067.915	2,955,232.711	1,55,950,549	181,395,090		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	2,984,902.435	1,462,070.172	2,955,283.023	1,55,952,586	181,395,081		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	2,985,191.630	1,463,612.719	2,956,131.720	1,57,481,114	181,395,208		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	2,986,489.667	1,463,761.910	2,956,479.341	1,57,627,032	181,395,242		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	2,986,479.177	1,463,762.310	2,956,496.159	1,57,627,352	181,395,243		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	2,986,571.653	1,463,764.205	2,956,571.415	1,57,628,500	181,395,272		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	2,986,572.296	1,463,764.334	2,956,572.086	1,57,628,420	181,395,345		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	2,989,644.797	1,473,446.337	2,988,336.398	1,68,984,016	174,420,279		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,016,000.021	1,474,542.631	2,988,602.540	1,67,990,940	175,034,781		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,016,022.338	1,474,543.296	2,988,629.418	1,67,991,262	175,034,789		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,016,389.508	1,474,562.376	2,989,269.400	1,68,002,879	175,035,455		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,016,390.807	1,474,562.963	2,989,270.985	1,68,003,371	175,035,883		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,039,655.302	3,056,480.270	3,667,767.021	5,609,898,203	610,124,134		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,791,178.922	3,093,580.962	3,795,639.150	637,699,376	636,850,846		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,791,189.974	3,093,581.430	3,795,688.703	637,699,632	636,850,846		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,791,198.146	3,093,581.781	3,795,802.840	637,699,808	636,850,856		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,791,208.397	3,093,582.228	3,795,820.961	637,700,046	636,850,873		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,791,214.304	3,093,582.470	3,795,831.375	637,700,171	636,850,874		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,791,264.736	3,093,585.235	3,795,919.310	637,701,665	636,850,887		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,791,674.082	3,093,583.887	3,796,547.675	637,713,041	636,851,542		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,791,674.525	3,093,584.162	3,796,548.149	637,713,273	636,851,802		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,846,159.247	3,335,701.565	3,835,945.609	677,688,544	697,174,052		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,851,843.684	3,356,693.141	3,843,237.131	679,644,011	700,098,655		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,851,854.690	3,356,693.510	3,843,236.571	679,644,263	700,098,665		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,851,897.063	3,356,695.516	3,843,332.741	679,645,306	700,098,698		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,851,897.902	3,356,695.571	3,843,332.807	679,645,312	700,098,701		
Imm cfi	Imm 0	PAR RECOM EXIT	0	0.1	3,851,897.902	3,356,695.571	3,843,332.807	679,645,312	700,098,701		

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Fig. 5D

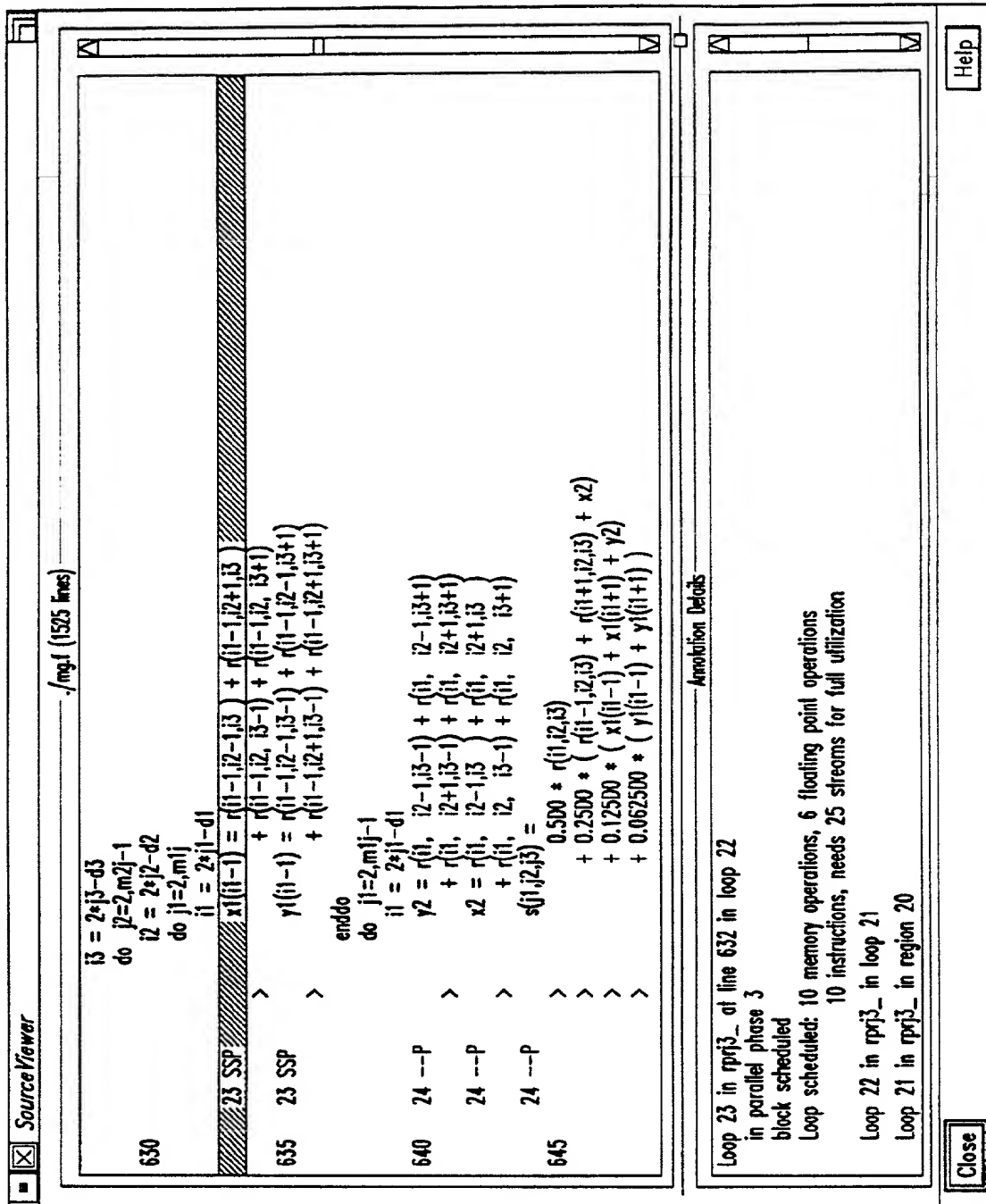


Fig. 5E

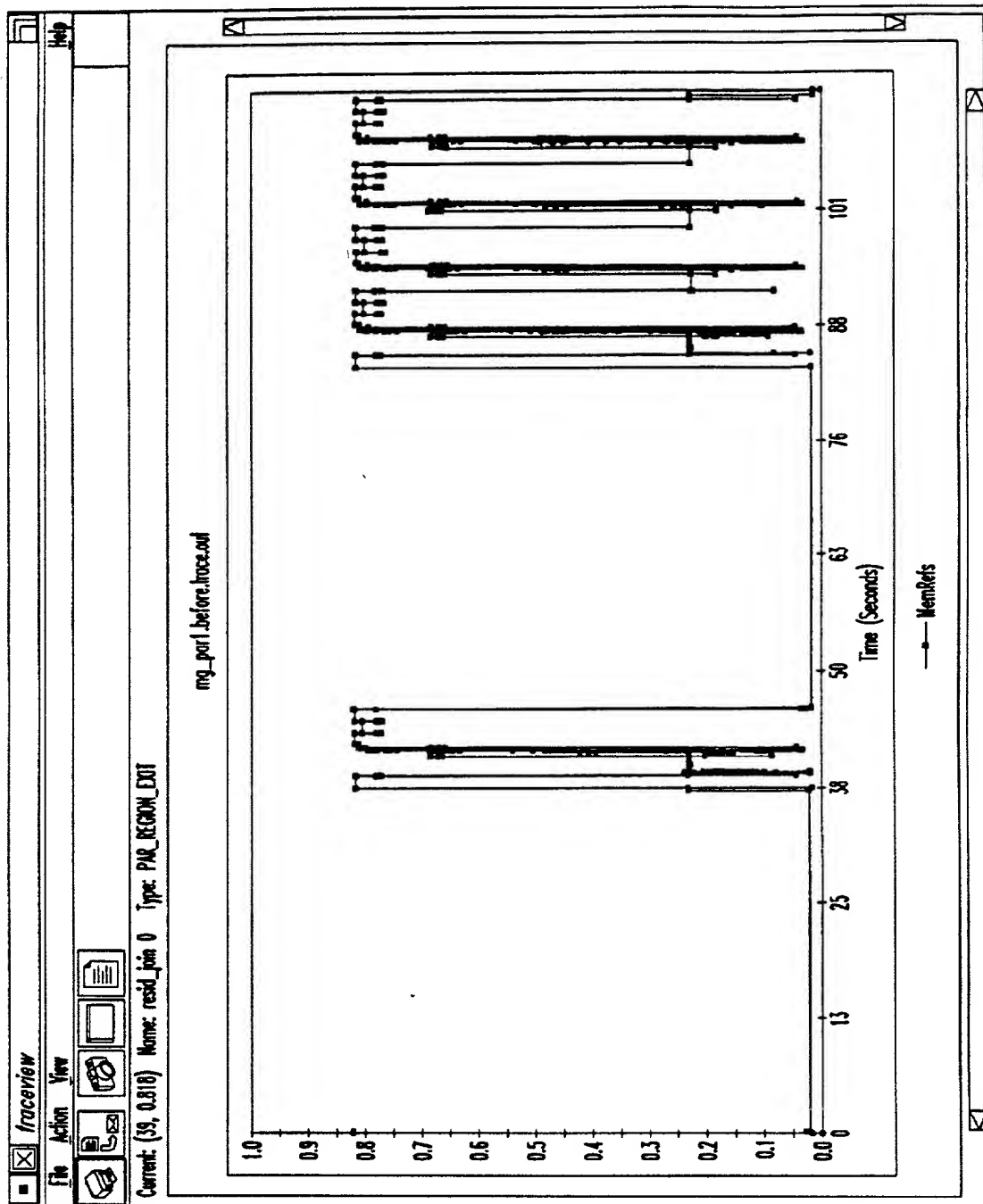


Fig. 5F

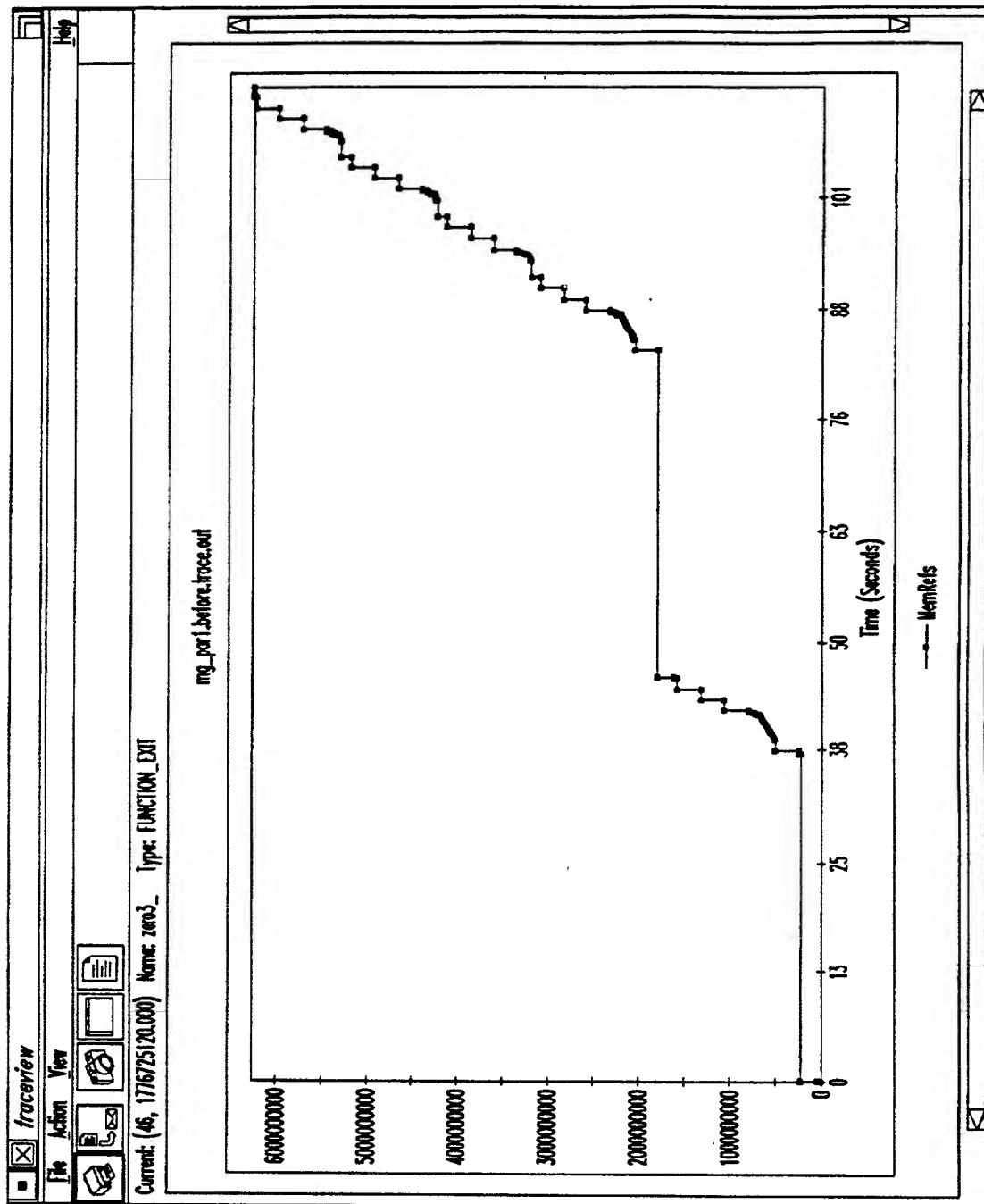


Fig. 5G

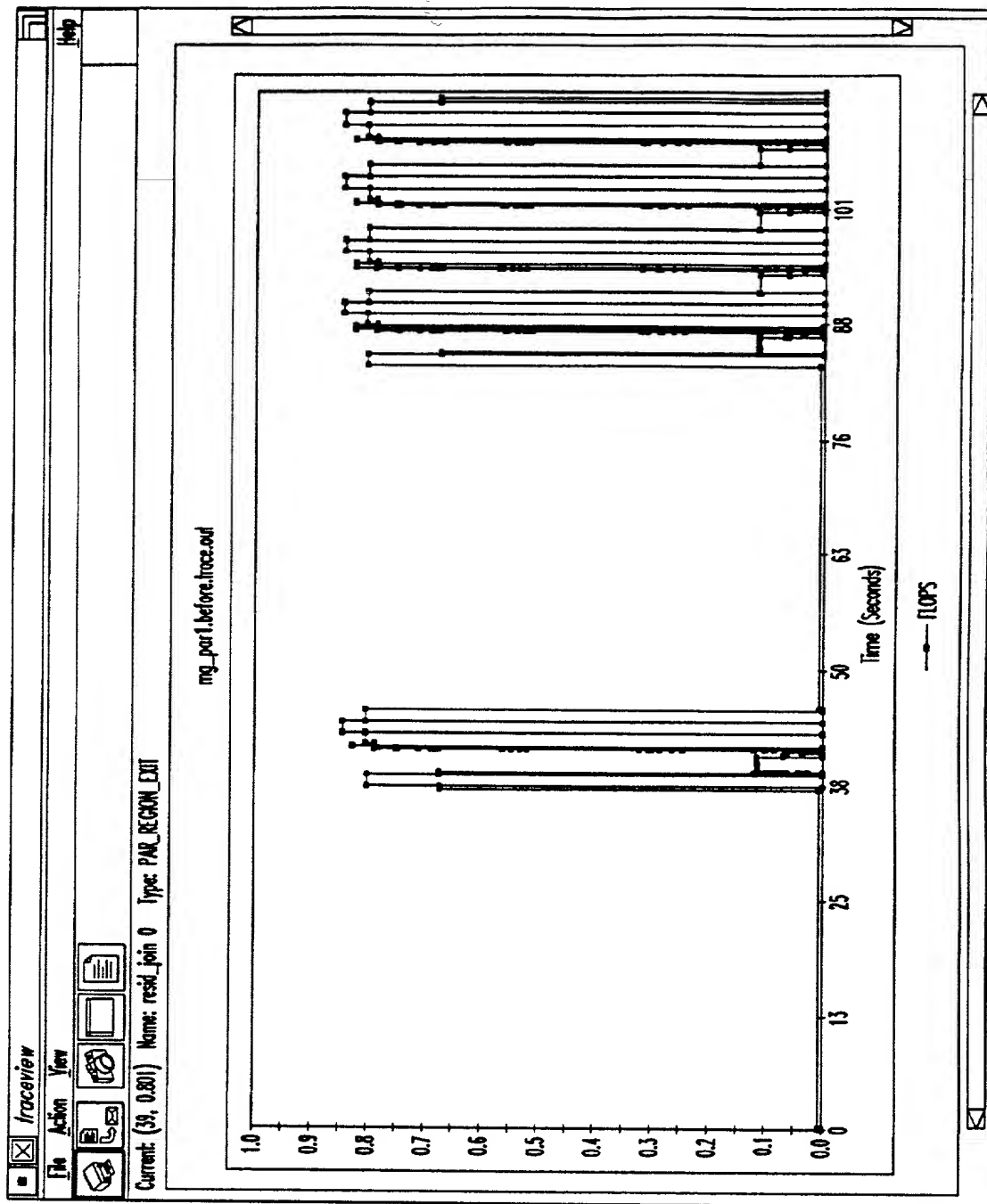


Fig. 5H

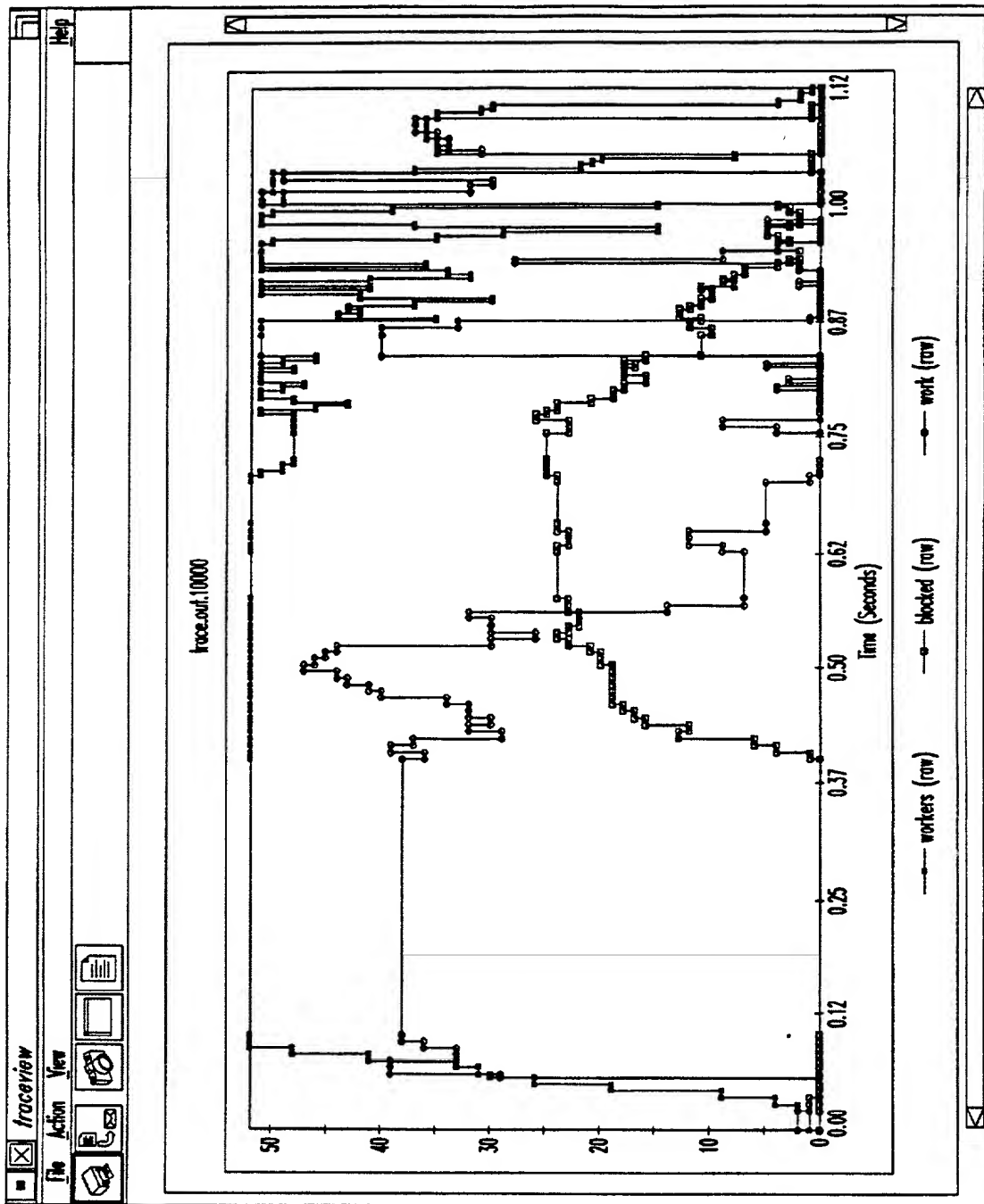


Fig. 51

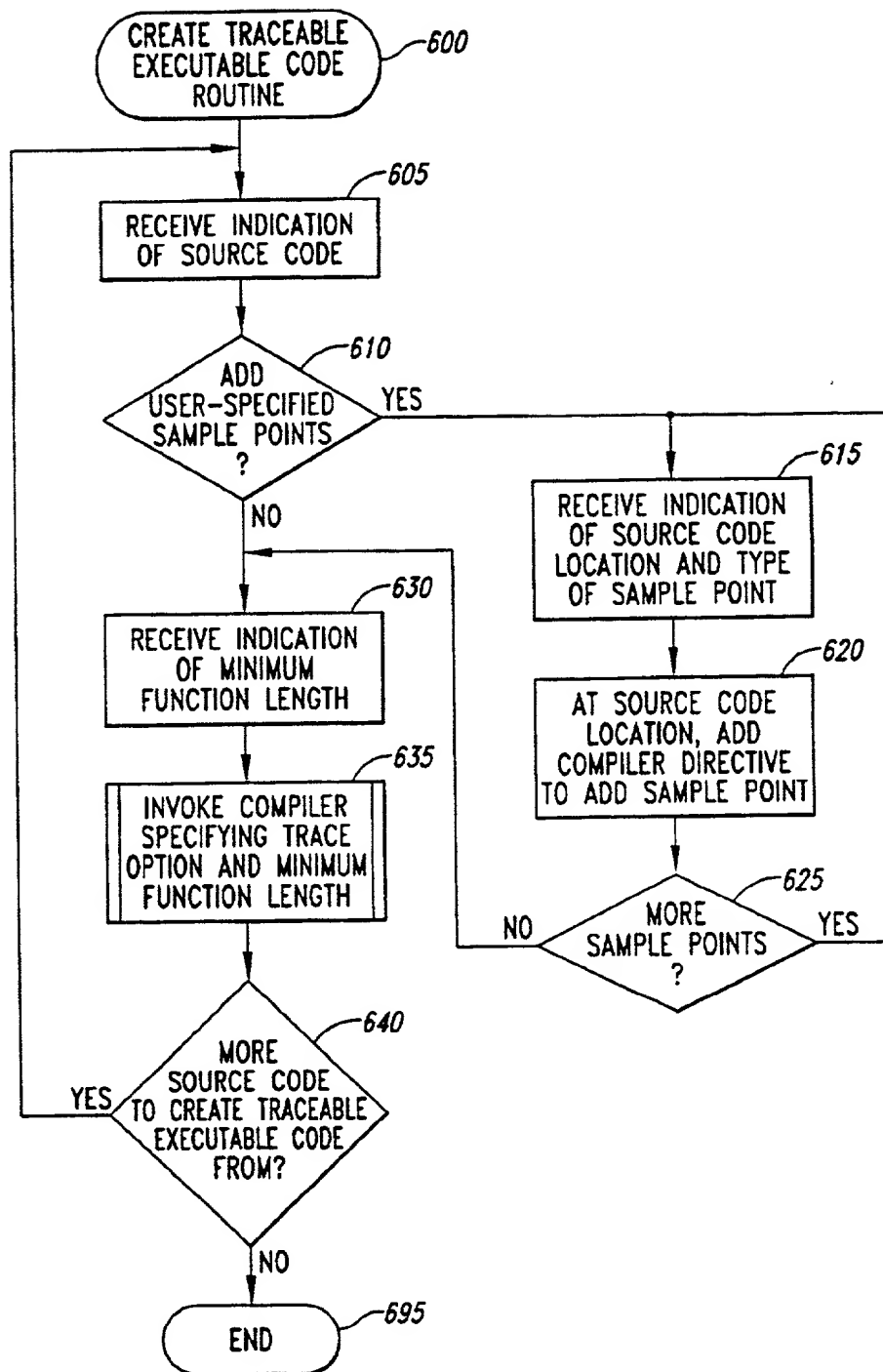
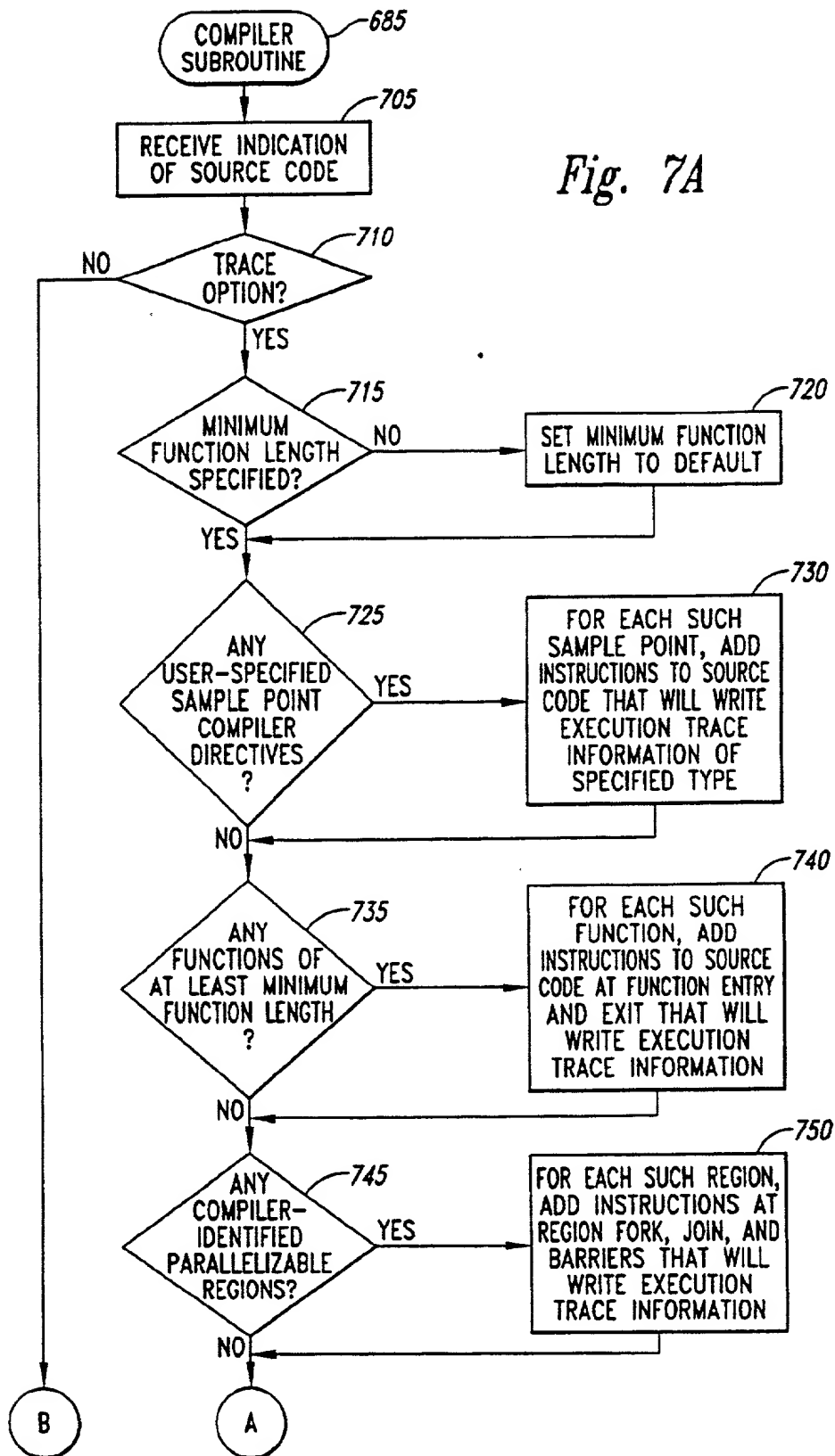


Fig. 6

Fig. 7A



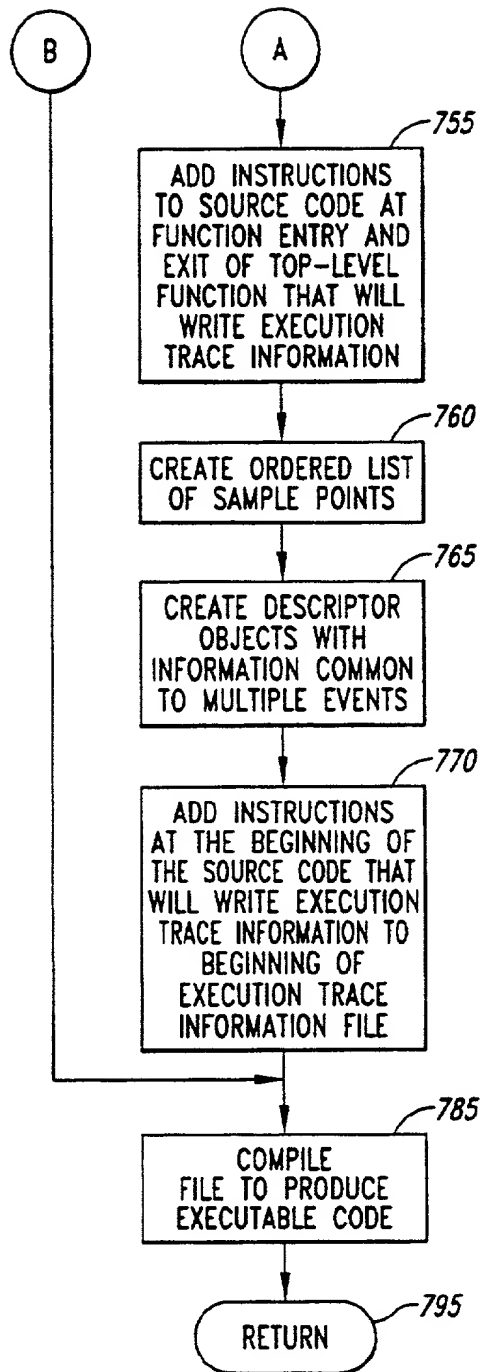


Fig. 7B

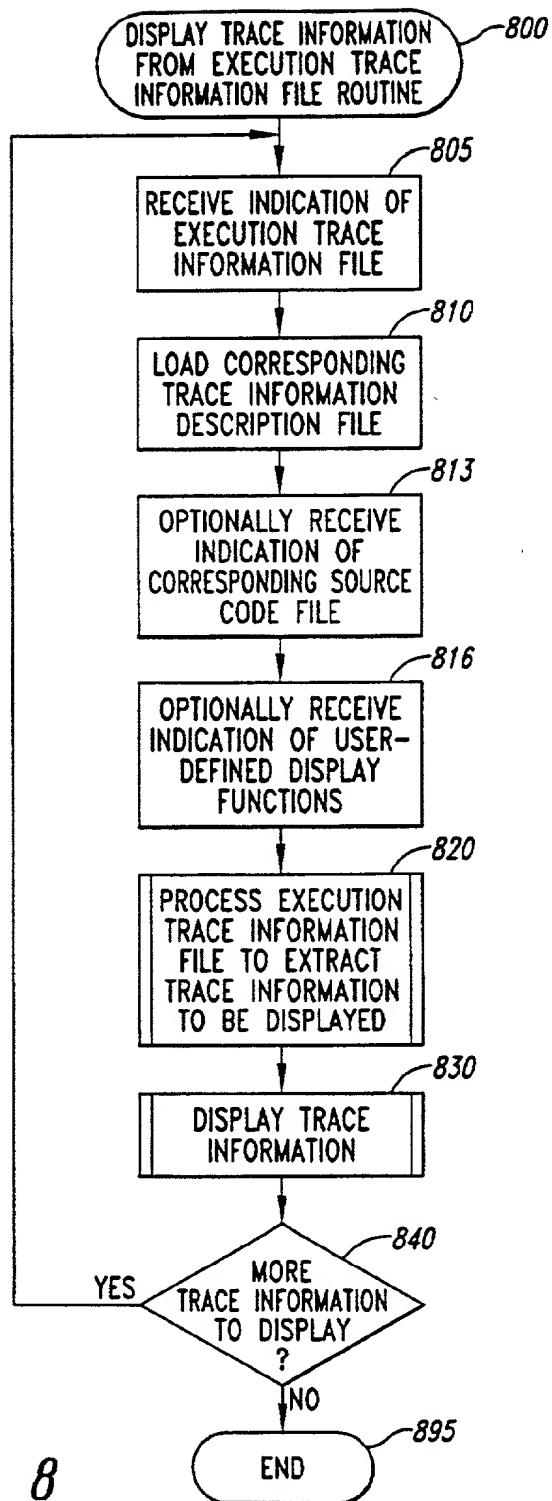
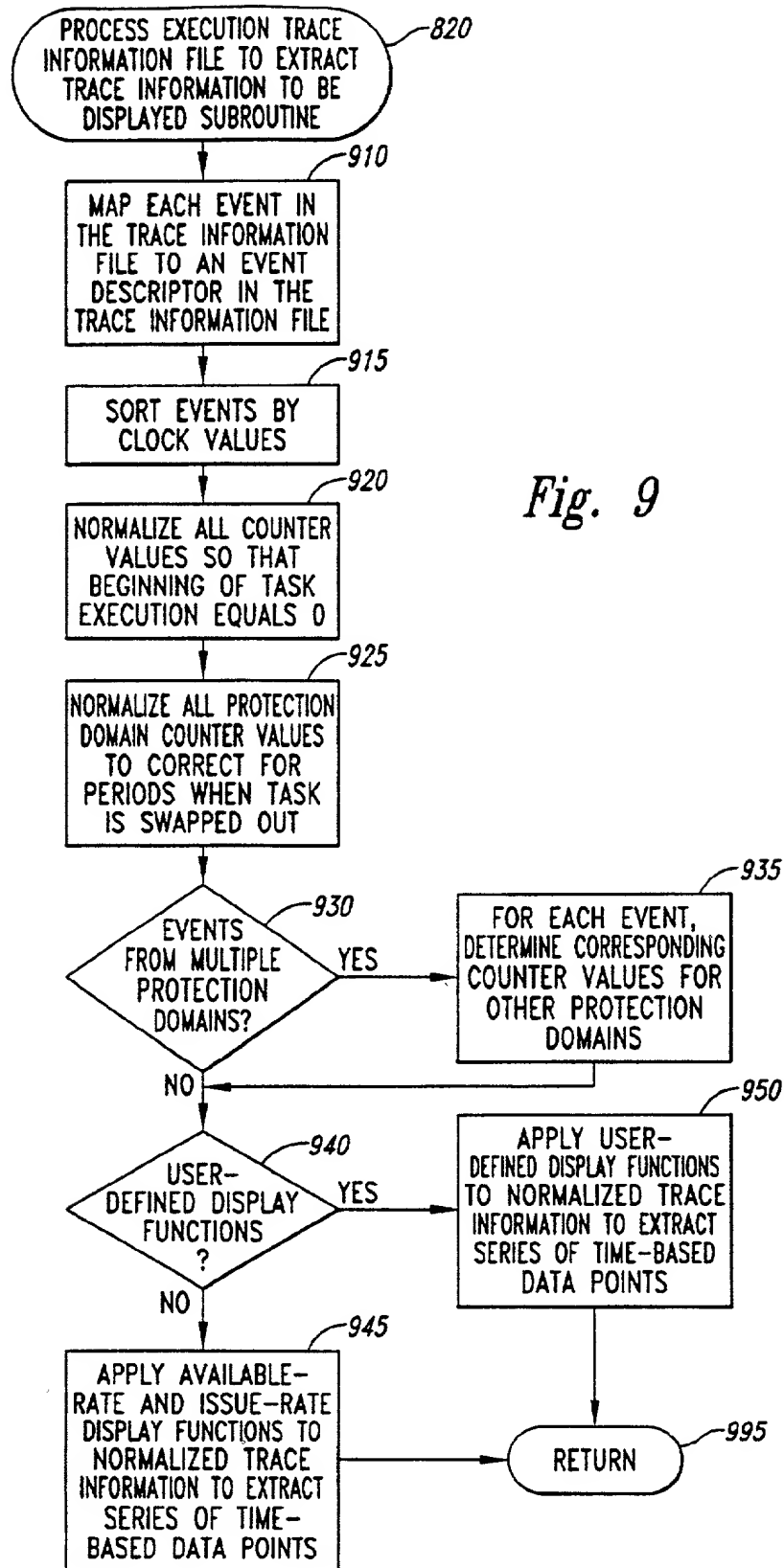


Fig. 8



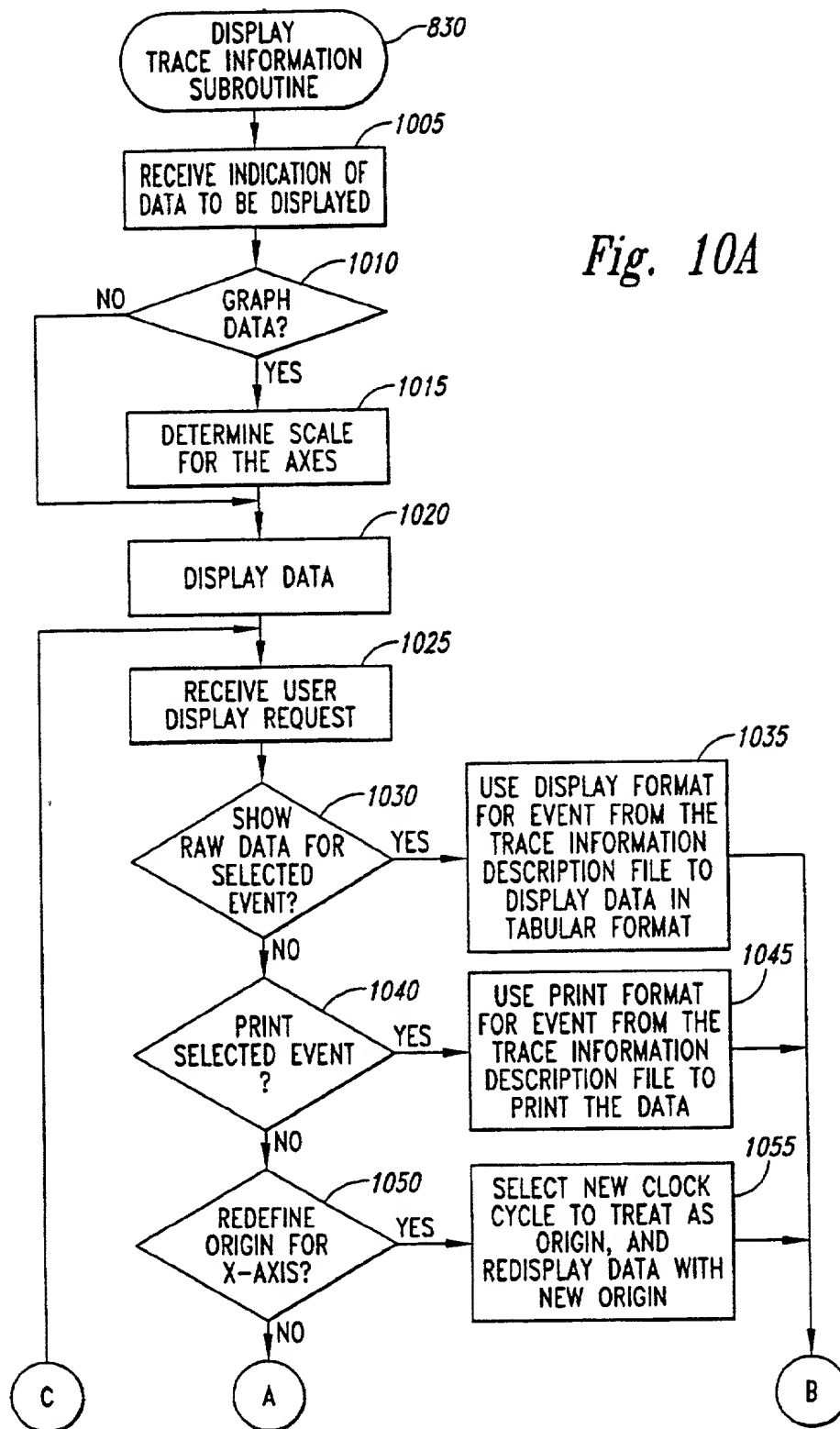


Fig. 10A

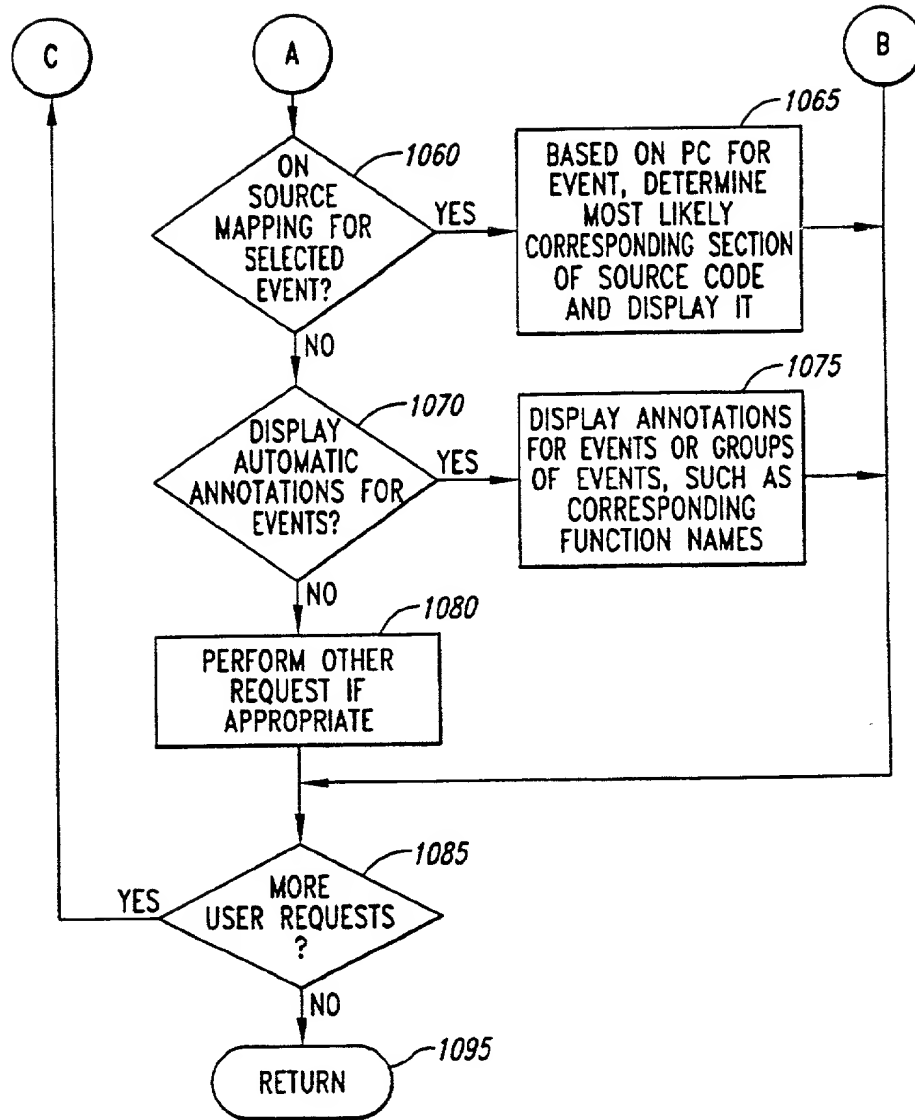


Fig. 10B